12/9/1 (Item 1 from file: 351) DIALOG(R) File 351: Derwent WPI (c) 2001 Derwent Info Ltd. All rts. reserv.

010948181 **Image available** WPI Acc No: 1996-445131/199645

XRAM Acc No: C96-140117

Metal-contg. compsn. for making electron-emitting devices - comprising an organic acid gp., a transition metal, an alcohol amine and water.

Patent Assignee: CANON KK (CANO)

Inventor: FURUSE T; IWAKI T; KOBAYASHI S; MIURA N; TOMIDA Y; YUASA S Number of Countries: 009 Number of Patents: 013

Patent Family:

Patent No	Kind	Date	Apj	plicat No	Kind	Date	Week	
EP 736890	A1	19961009	ΕP	96302458	A	19960404	199645	В
JP 8277294	Α	19961022	JP	95101619	Α	19950404	199701	
JP 9106754	Α	19970422	JP	95286344	Α	19951009	199726	
JP 9106755	Α	19970422	JР	95288167	Α	19951011	199726	
JP 9185940	Α	19970715	JP	95352440	Α	19951228	199738	
JP 9245615	A	19970919	JP	9678164	Α	19960307	199748	
JP 9274850	Α	19971021	JP	96104807	Α	19960403	199801	
JP 9274851	Α	19971021	JΡ	96104808	Α	19960403	199801	
JP 11315241	Α	19991116	JP	95288167	Α	19951011	200005	
			JΡ	9962731	Α	19951011		
JP 11323224	Α	19991126	JΡ	95101619	Α	19950404	200007	
			JP	9961531	Α	19950404		
US 6123876	Α	20000926	US	96627566	Α	19960404	200051	
CN 1146061	Α	19970326	CN	96108459	Α	19960404	200106	
KR 229231	В1	19991101	KR	9610235	Α	19960404	200110	

Priority Applications (No Type Date): JP 96104808 A 19960403; JP 95101619 A 19950404; JP 95286344 A 19951009; JP 95288167 A 19951011; JP 95352440 A 19951228; JP 9678164 A 19960307; JP 96104807 A 19960403; JP 9962731 A 19951011; JP 9961531 A 19950404

Cited Patents: EP 660359

Patent Details:

KR 229231

Patent No Kind Lan Pg Main IPC Filing Notes EP 736890 A1 E 78 H01J-001/30 Designated States (Regional): DE FR GB IT NL JP 8277294 21 CO7F-015/00 Α

JP 9106754 19 H01J-001/30 Α JP 9106755 Α 19 H01J-001/30 JP 9185940 28 H01J-001/30 Α JP 9245615 A 17 H01J-001/30 JP 9274850 Α 18 H01J-009/02 JP 9274851 19 H01J-009/02 A JP 11315241 19 C09D-011/00 Α

Div ex application JP 95288167 20 C09D-011/00 JP 11323224 Α Div ex application JP 95101619 US 6123876 Α H01B-001/06 CN 1146061

H01J-001/30

H01J-001/30

Abstract (Basic): EP 736890 A

Α

В1

A metal-contg. compsn. for forming an electron-emitting device contains: (a) an organic acid gp.; (b) a transition metal; (c) an alcohol amine; and (d) water. Also claimed are: (1) a method for mfg. an electron-emitting device having an electroconductive film contg. an electron-emitting region placed between a pair of device electrodes, in which the process of forming the electroconductive film, where the electron-emitting region is to be formed, comprises applying the above compsn. contg. the material of the electroconductive film and heating the compsn.; (2) a method of mfg. an electron source comprising multiple electron-emitting devices, each having an electroconductive film as in (1) above; and (3) an electron-emitting device including any of the metal-contg. compsns. described.

USE - In a television display, a video conferencing monitor, a computer system, an editing appts. for still and moving pictures, or an optical printer comprising a photosensitive drum, etc.

ADVANTAGE - The compsn. forms an electroconductive film at relatively low baking temp. The metal cpd. in it is not lost by evapn. and/or sublimation during baking. Formation of crystals on the substrate surface can be prevented and the compsn. may be applied as a pattern using an ink-jet printer. A film of uniform thickness may be applied irrespective of the nature of the substrate. Electroconductive films may be produced with desired profile, which are uniform and homogeneous so that devices contg. them operate stably. An image-forming appts. contg. an electron source comprising a large number of such devices may be made. 1A, 3A, 4, 5/ 17 Title Terms: METAL; CONTAIN; COMPOSITION; ELECTRON; EMIT; DEVICE; COMPRISE; ORGANIC; ACID; GROUP; TRANSITION; METAL; ALCOHOL; AMINE; WATER Derwent Class: A85; E12; E16; G08; L03; P75 International Patent Class (Main): H01B-001/06; H01J-001/30; H01J-009/02 International Patent Class (Additional): B41J-002/01; B41M-005/00; C07F-015/00; C08K-003/10; C08K-005/05; C08K-005/17; C08K-005/56; C08L-001/02; C08L-029/04; C08L-101/00; C08L-101/14; C09D-011/00; H01B-001/14; H01B-001/22; H01J-029/04; H01J-031/12 File Segment: CPI; EngPI Manual Codes (CPI/A-N): A12-E11; A12-L05C1; E05-L; E05-M; E05-N; G06-F06; G06-F07; G06-G07; L03-C02 Chemical Fragment Codes (M3): *01* A332 A349 A350 A351 A382 A422 A426 A427 A429 A430 A539 A540 A544 A546 A547 A657 A672 A673 A674 A678 A679 A758 A764 A960 C710 J0 J011 J1 J171 M210 M211 M212 M213 M214 M231 M232 M233 M262 M280 M281 M320 M411 M510 M520 M530 M540 M620 M630 M770 M781 M782 M903 M904 Q454 R021 R023 R024 R043 9645-A9101-M 9645-A9101-U *02* H1 H103 H181 H4 H401 H402 H403 H481 H482 H483 H8 L640 L699 M210 M211 M212 M213 M214 M215 M216 M220 M221 M222 M223 M224 M225 M226 M231 M232 M233 M273 M280 M281 M282 M311 M312 M313 M314 M315 M321 M322 M323 M331 M332 M333 M340 M342 M383 M391 M392 M393 M416 M620 M770 M781 M782 M903 M904 Q454 R021 R023 R024 R043 9645-A9102-M 9645-A9102-U *03* H1 H100 H181 H4 H401 H402 H403 H481 H482 H483 H8 M280 M312 M313 M314 M315 M321 M331 M332 M333 M334 M342 M343 M344 M383 M391 M416 M620 M770 M781 M782 M903 M904 Q454 R021 R023 R024 R043 9645-A9103-M 9645-A9103-U Polymer Indexing (PS): <01> *001* 018; R00351 G1558 D01 D23 D22 D31 D42 D50 D73 D82 F47; H0000; P0055 ; P8004 P0975 P0964 D01 D10 D11 D50 D82 F34 *002* 018; R00370 G1558 D01 D11 D10 D23 D22 D31 D42 D50 D73 D83 F47; H0000; P0055; P8015 P0975 P0964 D01 D10 D11 D50 D83 F34 *003* 018; ND01; Q9999 Q7512; Q9999 Q9449 Q8173; Q9999 Q8775-R; Q9999 Q8606-R; K9814 K9803 K9790 *004* 018; B9999 B5094 B4977 B4740; B9999 B3521-R B3510 B3372 < 0.2> *001* 018; P1707 P1694 D01; M9999 M2186 *002* 018; ND01; Q9999 Q7512; Q9999 Q9449 Q8173; Q9999 Q8775-R; Q9999 Q8606-R; K9814 K9803 K9790 *003* 018; B9999 B3521-R B3510 B3372 *004* 018; R00247 D01 D11 D10 D50 D60 D82 F36 F35; H0226 <03> *001* 018; R01860 G3678 G3634 D01 D03 D11 D10 D23 D22 D31 D42 D50 D76 D89 F24 F34 H0293 P0599 G3623 *002* 018; ND01; Q9999 Q7512; Q9999 Q9449 Q8173; Q9999 Q8775-R; Q9999 Q8606-R; K9814 K9803 K9790 *003* 018; B9999 B3521-R B3510 B3372

12/9/2 (Item 1 from file: 345)
DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat
(c) 2001 EPO. All rts. reserv.

9645-A9102-U; 9645-A9103-M; 9645-A9103-U

Generic Compound Numbers: 9645-A9101-M; 9645-A9101-U; 9645-A9102-M;

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13237488
Basic Patent (No, Kind, Date): EP 736890 Al 19961009 <No. of Patents: 011>
PATENT FAMILY:
CHINA (CN)
  Patent (No, Kind, Date): CN 1146061 A 19970326
    METAL-CONTAINING COMPOSITION FOR FORMING ELECTRON-EMITTING DEVICE AND
      METHODS OF MANUFACTURING ELECTRON-EMITTING DEVICE, ELECTRON SOURCE
      AND IMAGE-FORMING APPARATUS (English)
    Patent Assignee: CANON KK (JP)
    Author (Inventor): KOBAYASHI SHIN
                                          (JP); FURUSE TSUYOSHI
                                                                      (JP):
      SATOSHI YASA (JP)
    Priority (No, Kind, Date):
                              JP 95101619 A 19950404; JP 95286344 A
      19951009
    Applic (No, Kind, Date): CN 96108459 A
                                            19960404
    IPC: * H01J-001/30; H01J-029/04; C08L-029/04; C08L-001/02
    CA Abstract No: * 125(26)345325F
    Derwent WPI Acc No: * C 96-445131
    Language of Document: Chinese
EUROPEAN PATENT OFFICE (EP)
  Patent (No, Kind, Date): EP 736890 Al 19961009
    METAL-CONTAINING COMPOSTITION FOR FORMING ELECTRON-EMITTING DEVICE AND
      METHODS OF MANUFACTURING ELECTRON-EMITTING DEVICE, ELECTRON SOURCE
      AND IMAGE-FORMING APPARATUS (English; French; German)
    Patent Assignee: CANON KK (JP)
    Author (Inventor): KOBAYASHI SHIN (JP); FURUSE TSUYOSHI (JP); YUASA
      SATOSHI (JP); MIURA NAOKO (JP); IWAKI TAKASHI (JP); TOMIDA YASUKO
        (JP)
      ority (No, Kind, Date): JP 95101619 A 19950404; JP 19951009; JP 95288167 A 19951011; JP 95352440 A
    Priority
                                               19950404; JP 95286344 A
                                                             19951228; JP
                     19960307; JP 96104807 A 19960403; JP 96104808 A
      9678164 A
     19960403
    Applic (No, Kind, Date): EP 96302458 A 19960404
    Designated States: (National) DE; FR; GB; IT; NL
    IPC: * H01J-001/30
    CA Abstract No: * 125(26)345325F; 125(26)345325F
    Derwent WPI Acc No: * C 96-445131; C 96-445131
    Language of Document: English
EUROPEAN PATENT OFFICE (EP)
 Legal Status (No, Type, Date, Code, Text):
                      19950404 EP AA
                                             PRIORITY (PATENT
                             APPLICATION) (PRIORITAET (PATENTANMELDUNG))
                             JP 95101619 A 19950404
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                       19951009 EP AA
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                             APPLICATION) (PRIORITAET (PATENTANMELDUNG))
                             JP 95286344 A
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                       19951011 EP AA
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                             JP 95288167 A
                                             19951011
                       19951228 EP AA
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                             JP 95352440 A 19951228
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                             APPLICATION) (PRIORITAET (PATENTANMELDUNG))
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19960403 EP AA

19960403 EP AA

JP 96104807 A 19960403

PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))

PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))

EP 736890

EP 736890

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JP 96104808 A
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                P 19960404 EP AE
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                                               EP-APPLICATION
                               (EUROPAEISCHE ANMELDUNG)
                              EP 96302458 A 19960404
    EP 736890
                        19961009 EP AK
                                               DESIGNATED CONTRACTING
                              STATES IN AN APPLICATION WITH SEARCH REPORT:
                              (IN EINER ANMELDUNG BENANNTE VERTRAGSSTAATEN)
                              DE FR GB IT NL
  EP 736890
                        19961009 EP A1
                                                PUBLICATION OF APPLICATION
                              WITH SEARCH REPORT (VEROEFFENTLICHUNG DER
                              ANMELDUNG MIT RECHERCHENBERICHT)
   EP 736890
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                        19970416 EP 17P
                                               REQUEST FOR EXAMINATION
                              FILED (PRUEFUNGSANTRAG GESTELLT)
                              970219
   EP 736890
                        19980121 EP 17Q
                                                FIRST EXAMINATION REPORT
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   EP 736890
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                        20010704 EP RAHF
                                               DIVISIONAL APPLICATION (ART
                              76) IN: (CORRECTION) (TEILANMELDUNG (ART.
                              76) IN: (KORR.))
                              EP 2001201600 A
                                                20010503
JAPAN (JP)
  Patent (No, Kind, Date): JP 8277294 A2 19961022
   ORGANIC METAL COMPLEX, MATERIAL FOR FORMING CONDUCTIVE FILM, AND
      PRODUCTION OF ELECTRON-RELEASING ELEMENT, ELECTRON SOURCE, DISPLAY
      PANEL AND IMAGE-FORMING DEVICE WITH THE SAME (English)
   Patent Assignee: CANON KK
   Author (Inventor): KOBAYASHI TATSU
   Priority (No, Kind, Date): JP 95101619 A 19950404
   Applic (No, Kind, Date): JP 95101619 A 19950404
   IPC: * C07F-015/00; H01J-001/30; H01J-009/02
   CA Abstract No: * 125(26)345325F
   Derwent WPI Acc No: * C 96-445131
Language of Document: Japanese
 Patent (No, Kind, Date): JP 9106754 A2 19970422
   MATERIAL FOR FORMING ELECTRON EMISSION PORTION, AND MANUFACTURE OF
     ELECTRON EMISSION ELEMENT, ELECTRON SOURCE, DISPLAY ELEMENT AND IMAGE
     FORMING DEVICE BY USING THE MATERIAL (English)
   Patent Assignee: CANON KK
   Author (Inventor): FURUSE TAKASHI
   Priority (No, Kind, Date): JP 95286344 A 19951009
   Applic (No, Kind, Date): JP 95286344 A 19951009
   IPC: * H01J-001/30; H01J-009/02; H01J-031/12; C09D-011/00
   CA Abstract No: * 125(26)345325F
   Derwent WPI Acc No: * C 96-445131
Language of Document: Japanese
 Patent (No, Kind, Date): JP 9106755 A2 19970422
   MATERIAL FOR FORMING ELECTRON EMISSION PORTION, AND MANUFACTURE OF
     ELECTRON EMISSION ELEMENT, ELECTRON SOURCE, DISPLAY ELEMENT AND IMAGE
     FORMING DEVICE (English)
   Patent Assignee: CANON KK
Author (Inventor): MIURA NAOKO
   Priority (No, Kind, Date): JP 95288167 A 19951011
   Applic (No, Kind, Date): JP 95288167 A 19951011
   IPC: * H01J-001/30; C08K-005/17; C08K-005/56; C08L-101/00; C08L-101/14
     ; H01J-009/02
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   Derwent WPI Acc No: * C 96-445131
Language of Document: Japanese
 Patent (No, Kind, Date): JP 9185940 A2 19970715
   METAL COMPOSITION FOR MANUFACTURING ELECTRON EMISSION ELEMENT, AND
     MANUFACTURE OF ELECTRON EMISSION ELEMENT, ELECTRON SOURCE, DISPLAY
     ELEMENT AND IMAGE FORMING DEVICE USING THE SAME (English)
   Patent Assignee: CANON KK
   Author (Inventor): YUASA SATOSHI
   Priority (No, Kind, Date): JP 95352440 A 19951228
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Applic (No, Kind, Date): JP 95352440 A
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     Derwent WPI Acc No: * C 96-445131
     Language of Document: Japanese
   Patent (No, Kind, Date): JP 9245615 A2 19970919
     MANUFACTURE OF ELECTRON EMITTING ELEMENT FORMING NICKEL COMPLEX OR ITS
       HYDRATE AND ITS SOLUTION, ELECTRON EMITTING ELEMENT AND IMAGE FORMING
       DEVICE (English)
     Patent Assignee: CANON KK
     Author (Inventor): IWAKI TAKASHI
     Priority (No, Kind, Date): JP 9678164 A
                                               19960307
     Applic (No, Kind, Date): JP 9678164 A 19960307
     IPC: * H01J-001/30; B41J-002/01; H01J-009/02
     CA Abstract No: * 125(26)345325F
     Derwent WPI Acc No: * C 96-445131
     Language of Document: Japanese
   Patent (No, Kind, Date): JP 9274850 A2 19971021
    METAL INCLUDED SOLUTION FOR ELECTRON EMITTING UNIT, FORMING MANUFACTURE
       OF ELECTRON EMITTING ELEMENT USING THIS SOLUTION, ELECTRON SOURCE,
       DISPLAY PANEL AND IMAGE FORMING DEVICE (English)
    Patent Assignee: CANON KK
    Author (Inventor): TOMITA YASUKO; IWAKI TAKASHI
    Priority (No, Kind, Date): JP 96104807 A 19960403
    Applic (No, Kind, Date): JP 96104807 A 19960403
    IPC: * H01J-009/02; C07F-015/00; H01J-001/30; H01J-031/12
    CA Abstract No: * 125(26)345325F
    Derwent WPI Acc No: * C 96-445131
Language of Document: Japanese
  Patent (No, Kind, Date): JP 9274851 A2 19971021
    METAL INCLUDED SOLUTION FOR ELECTRON EMITTING ELEMENT, FORMING AND
      MANUFACTURE
                   OF ELECTRON EMITTING ELEMENT USING THIS SOLUTION,
      ELECTRON SOURCE, DISPLAY ELEMENT AND IMAGE FORMING DEVICE (English)
    Patent Assignee: CANON KK
    Author (Inventor): TOMITA YASUKO
    Priority (No, Kind, Date): JP 96104808 A 19960403
    Applic (No, Kind, Date): JP 96104808 A 19960403
    IPC: * H01J-009/02; C07F-015/00; H01J-001/30; H01J-031/12
    CA Abstract No: * 125(26)345325F
    Derwent WPI Acc No: * C 96-445131
Language of Document: Japanese
KOREA, REPUBLIC (KR)
  Patent (No, Kind, Date): KR 229231 B1 19991101
    METAL-CONTAINING COMPOSITION FOR FORMING ELECTRON-EMITTING DEVICE AND
      METHODS OF MANUFACTURING ELECTRON-EMITING DEVICE, ELECTRON SOURCE AND
      IMAGE-FORMING APPARATUS (English)
    Patent Assignee: CANON KK (JP)
    Author (Inventor): KOBAYASHI SHIN (JP); FURUSE TSUYOSHI (JP); YUASA
       SATOSHI (JP); MIURA NAOKO (JP); IWAKI TAKASHI (JP); TOMIDA YASUKO
        (JP)
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       9678164
                      19960307; JP 96104807 A 19960403; JP 96104808 A
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    Applic (No, Kind, Date): KR 9610235 A
                                             19960404
    IPC: * H01J-001/30
    CA Abstract No: * 125(26)345325F
    Derwent WPI Acc No: * C 96-445131
Language of Document: Korean
UNITED STATES OF AMERICA (US)
  Patent (No, Kind, Date): US 6123876 A 20000926
    METAL-CONTAINING COMPOSITION FOR FORMING ELECTRON-EMITTING DEVICE
      (English)
    Patent Assignee: CANON KK (JP)
    Author (Inventor): KOBAYASHI SHIN (JP); FURUSE TSUYOSHI (JP); YUASA
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SATOSHI (JP); MIURA NAOKO (JP); IWAKI TAKASHI (JP); TOMIDA YASUKO
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   Priority (No, Kind, Date): JP 95101619 A
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      9678164 A 19960307; JP 96104807 A 19960403; JP 96104808 A
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   Applic (No, Kind, Date): US 627566 A 19960404
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      252519210; 423023000
   IPC: * H01B-001/06; H01B-001/14; H01B-001/22
   CA Abstract No: * 125(26)345325F
   Derwent WPI Acc No: * C 96-445131
Language of Document: English
UNITED STATES OF AMERICA (US)
  Legal Status (No, Type, Date, Code, Text):
   ŪS 6123876
                        19950404 US AA
                                               PRIORITY (PATENT)
                    Р
                              JP 95101619 A
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   US 6123876
                    Р
                        19951009 US AA
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   US 6123876
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                              JP 96104808 A
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                        19960404 US AE
                                               APPLICATION DATA (PATENT)
                              (APPL. DATA (PATENT))
                              US 627566 A 19960404
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                        20010522 US CC
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11/9/1
           (Item 1 from file: 351)
DIALOG(R) File 351: Derwent WPI
(c) 2001 Derwent Info Ltd. All rts. reserv.
             **Image available**
010948183
WPI Acc No: 1996-445133/199645
XRAM Acc No: C96-140118
XRPX Acc No: N96-374832
Mfr. of electron-emitting device - by applying material contg. metal cpd.
 and film thickness controlling agent onto substrate
Patent Assignee: CANON KK (CANO
Inventor: MIURA N; TAKAHASHI Y
Number of Countries: 008 Number of Patents: 005
Patent Family:
Patent No
              Kind
                     Date
                             Applicat No
                                            Kind
                                                   Date
                                                            Week
              A1 19961009 EP 96302284
EP 736892
                                            Α
                                                 19960329
                                                           199645 B
JP 8273533
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                   19961018 JP 9599497
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               B1 19990915 KR 969965
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Priority Applications (No Type Date): JP 95284377 A 19951006; JP 9599497 A
  19950403
Cited Patents: EP 693766
Patent Details:
Patent No Kind Lan Pg
                        Main IPC
                                     Filing Notes
              A1 E 43 H01J-009/02
   Designated States (Regional): DE FR GB IT NL
JP 8273533
            Α
                    20 H01J-009/02
JP 9102271
              Α
                    15 H01J-009/02
CN 1138210
              Α
                       H01J-009/02
KR 221294
              В1
                       H01J-031/10
Abstract (Basic): EP 736892 A
        A method for mfr. of an electron-emitting device possessing an
    electroconductive film, on which an electron-emission region is formed,
    forms an electron-emission region by a process that includes applying a
   metal cpd.-contg. material and a film thickness controlling agent to
    the substrate. Also claimed are: (1) a method for mfr. of an electron
    source comprising a substrate and multiple electron-emitting devices
    arrayed on the substrate, in which the electron-emitting devices are
   mfd. by the above method; and (2) a method for mfr. of an image-forming
    apparatus comprising a substrate with multiple electron-emitting
    devices as above, and an image-forming device, in which the
    electron-emitting devices are mfd. by the above process.
        USE - Used in display panels and image-forming systems, e.g.
   television sets, monitors for video conferencing or computer systems,
    in a photo-printer comprising a photo- sensitive drum, which uses a
    line-form emission source or a two-dimensional emission source, etc..
        ADVANTAGE - The method prevents the seepage of droplets due to the
   printed electrodes and non-uniform spreading of the droplets due to a
   distribution of wetting properties between areas of the substrate or
   between the substrate and the electrodes. There is no pptn. of crystals
   during the time interval between droplet deposition and baking, nor is
    there any volatilisation or sublimation, which reduces thinning of the
    electroconductive film and minimises irregularities in its electrical
   properties, e.g. sheet resistance.
Title Terms: MANUFACTURE; ELECTRON; EMIT; DEVICE; APPLY; MATERIAL; CONTAIN;
 METAL; COMPOUND; FILM; THICK; CONTROL; AGENT; SUBSTRATE
Derwent Class: A85; G08; L03; V05
International Patent Class (Main): H01J-009/02; H01J-031/10
International Patent Class (Additional): G09F-009/313; H01J-001/30;
  HO1J-009/00; HO1J-029/46; HO1J-031/12; HO4N-005/335
File Segment: CPI; EPI
Manual Codes (CPI/A-N): A12-E11A; A12-L05C1; G02-A05B; G05-F; G06-A07;
  G06-F06; G06-F07; L03-C02; L03-G05
Manual Codes (EPI/S-X): V05-L01A3; V05-L05D1
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Polymer Indexing (PS):
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 *001* 018; R00446 G0282 G0271 G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D60
       D83 F36 F35; H0000; H0011-R; P0088 ; P0099
 *002* 018; G3634-R D01 D03 D11 D10 D23 D22 D31 D42 D76 F24 F34 H0293
       P0599 G3623
 *003* 018; R03275 R01863 D01 D11 D10 D23 D22 D31 D42 D50 D76 D86 F24 F29
       F26 F34 H0293 M2313 P0599 G3623
 *004* 018; ND01; Q9999 Q7512; Q9999 Q8606-R; Q9999 Q8775-R; N9999 N7147
       N7034 N7023; Q9999 Q7114-R; B9999 B5243-R B4740; K9676-R; K9483-R
 *001* 018; R01860 G3678 G3634 D01 D03 D11 D10 D23 D22 D31 D42 D50 D76 D89
        F24 F34 H0293 P0599 G3623; S9999 S1616 S1605
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       N7034 N7023; Q9999 Q7114-R; B9999 B5243-R B4740; K9676-R; K9483-R;
       B9999 B3678 B3554
Derwent Registry Numbers: 0246-U; 0247-U; 1544-U
            (Item 1 from file: 345)
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DIALOG(R) File 345: Inpadoc/Fam. & Legal Stat
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13237484
Basic Patent (No, Kind, Date): EP 736892 A1 19961009
                                                  <No. of Patents: 006>
PATENT FAMILY:
CHINA (CN)
 Patent (No, Kind, Date): CN 1138210 A
                                         19961218
    MANUFACTURING METHOD FOR ELECTRON-EMITTING DEVICE, ELECTRON SOURCE, AND
      IMAGE-FORMING APPARATUS (English)
    Patent Assignee: CANON KK (JP)
    Author (Inventor): TAKAHASHI YASUO (JP); MIURA NAOKO (JP)
    Priority (No, Kind, Date): JP 9599497 A 19950403; JP 95284377 A
      19951006
    Applic (No, Kind, Date): CN 96101935 A
                                           19960403
    IPC: * H01J-009/02; H01J-009/00; H01J-031/10; H01J-029/46
    CA Abstract No: * 125(26)345324E
    Derwent WPI Acc No: * C 96-445133
    Language of Document: Chinese
  Patent (No, Kind, Date): CN 1290953 A
                                         20010411
   METHOD FOR PRODUCING ELECTRONIC EMITTING DEVICE (English)
    Patent Assignee: CANON KK (JP)
   Author (Inventor): YASUO TAKAHASHI (JP); NAOKO MIURA (JP)
    Priority (No, Kind, Date):
                               JP 9599497 A
                                                19950403; JP 95284377 A
      19951006
   Applic (No, Kind, Date): CN 2000121684 A
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    IPC: * H01J-009/02
    CA Abstract No: * 125(26)345324E
    Derwent WPI Acc No: * C 96-445133
    Language of Document: Chinese
EUROPEAN PATENT OFFICE (EP)
 Patent (No, Kind, Date): EP 736892 Al 19961009
   MANUFACTURING METHOD FOR ELECTRON-EMITTING DEVICE, ELECTRON SOURCE, AND
      IMAGE FORMING APPARATUS Manufacturing method for electron-emitting
      device, electron source, and image forming apparatus (English; French
      ; German)
    Patent Assignee: CANON KK (JP)
    Author (Inventor): TAKAHASHI YASUO (JP); MIURA NAOKO (JP)
    Priority (No, Kind, Date): JP 9599497 A
                                                19950403; JP 95284377 A
      19951006
    Applic (No, Kind, Date): EP 96302284 A
                                            19960329
    Designated States: (National) DE; FR; GB; IT; NL
    IPC: * H01J-009/02
    CA Abstract No: * 125(26)345324E; 125(26)345324E
    Derwent WPI Acc No: * C 96-445133; C 96-445133
    Language of Document: English
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EUROPEAN PATENT OFFICE (EP)
  Legal Status (No, Type, Date, Code, Text):
                      19950403 EP AA PRIORITY (PATENT
    EP 736892
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                            APPLICATION) (PRIORITAET (PATENTANMELDUNG))
                             JP 9599497 A 19950403
    EP 736892 P
                       19951006 EP AA PRIORITY (PATENT
                             APPLICATION) (PRIORITAET (PATENTANMELDUNG))
                             JP 95284377 A
                                             19951006
    EP 736892 P
                       19960329 EP AE
                                            EP-APPLICATION
                             (EUROPAEISCHE ANMELDUNG)
                             EP 96302284 A 19960329
    EP 736892 P
                       19961009 EP AK
                                             DESIGNATED CONTRACTING
                             STATES IN AN APPLICATION WITH SEARCH REPORT
                             (IN EINER ANMELDUNG BENANNTE VERTRAGSSTAATEN)
                             DE FR GB IT NL
    EP 736892 P
                       19961009 EP A1
                                             PUBLICATION OF APPLICATION
                            WITH SEARCH REPORT (VEROEFFENTLICHUNG DER
                            ANMELDUNG MIT RECHERCHENBERICHT)
    EP 736892
                 Ρ
                       19970416 EP 17P
                                             REQUEST FOR EXAMINATION
                            FILED (PRUEFUNGSANTRAG GESTELLT)
                             970219
   EP 736892 P
                       20000202 EP 17Q
                                             FIRST EXAMINATION REPORT
                             (ERSTER PRUEFUNGSBESCHEID)
                             19991217
JAPAN (JP)
  Patent (No, Kind, Date): JP 8273533 A2 19961018
   MANUFACTURE OF ELECTRON EMISSION ELEMENT, ELECTRON SOURCE, DISPLAY
      PANEL, AND IMAGE FORMING DEVICE (English)
    Patent Assignee: CANON KK
   Author (Inventor): TAKAHASHI YASUO
   Priority (No, Kind, Date): JP 9599497 A 19950403
   Applic (No, Kind, Date): JP 9599497 A 19950403
   IPC: *
               H01J-009/02; G09F-009/313; H01J-001/30; H01J-031/12;
     H04N-005/335
   CA Abstract No: * 125(26)345324E
   Derwent WPI Acc No: * C 96-445133
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  Patent (No, Kind, Date): JP 9102271 A2 19970415
   MANUFACTURE OF ELECTRON EMITTING ELEMENT, AND ELECTRON EMITTING
     ELEMENT, DISPLAY ELEMENT, AND IMAGE FORMING DEVICE (English)
   Patent Assignee: CANON KK
   Author (Inventor): MIURA NAOKO
   Priority (No, Kind, Date): JP 95284377 A 19951006
   Applic (No, Kind, Date): JP 95284377 A 19951006
   IPC: * H01J-009/02; H01J-001/30; H01J-031/12
   CA Abstract No: * 125(26)345324E
   Derwent WPI Acc No: * C 96-445133
   Language of Document: Japanese
KOREA, REPUBLIC (KR)
 Patent (No, Kind, Date): KR 221294 B1 19990915
   ELECTRON EMITTING DEVICE AND MANUFACTURING METHOD OF ELECTRON SOURCE
     WITH THIS DEVICE AND IMAGE FORMING DEVICE (English)
   Patent Assignee: CANON KK (JP)
   Author (Inventor): TAKAHASHI YASUO (JP); MIURA NAOKO (JP)
   Priority (No, Kind, Date): JP 9599497 A
                                              19950403; JP 95284377 A
     19951006
   Applic (No, Kind, Date): KR 969965 A
                                         19960403
   IPC: * H01J-031/10
   CA Abstract No: * 125(26)345324E
   Derwent WPI Acc No: * C 96-445133
   Language of Document: Korean
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